

Purchase Order Receipt Listing

Monday, September 11, 2017 1:20:08 PM

Page 1 of 3

All amounts are calculated in domestic currency.

All Vendors PO ID PO37671 Receipt Dates from 9/8/2017 to 9/8/2017 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VC-CAM002 Acier Ouellette Inc.											
PO37671	1		M303R1.500	f	9/11/2017	9/8/2017	12.0000 ✓	\$15.60	0.0000	0	\$187.14
CAD	No		M303R1.500	f	12.0000	PLOU01		\$187.14	0.0000	0	
			m138470	9-89							
	2		M303R0.750	f	9/11/2017	9/8/2017	12.2000 ✓	\$3.53	0.0000	0	\$43.11
	No		303 Round Bar 0.750	f	12.0000	PLOU01		\$43.11	0.0000	0	
			m138470	9-89							
	3		M304R0.375	f	9/11/2017	9/8/2017	12.3000 ✓	\$0.82	0.0000	0	\$10.15
	No		304 ROUND BAR	f	12.0000	PLOU01		\$10.15	0.0000	0	
			0.375	9-89							
			m138470	DAS							
	5		M304S20GA	sf	9/11/2017	9/8/2017	64.0000 ✓	\$3.12	0.0000	0	\$199.54
	No		304/316 .040 Sheet	sf	64.0000	PLOU01		\$199.54	0.0000	0	
			m138470	9-89							
	6		M1018R0.625	f	9/11/2017	9/8/2017	18.9000 ✓	\$0.83	0.0000	0	\$15.67
	No		M1018R0.625	f	20.0000	PLOU01		\$15.67	0.0000	0	
			m138470	9-89							
	7		M1018R0.500	f	9/11/2017	9/8/2017	18.9000 ✓	\$0.53	0.0000	0	\$10.06
	No		1018-1025 round bar	f	20.0000	PLOU01		\$10.06	0.0000	0	
			.500	9-89							
			m138470	DAS							
	8		M1018B0.250x1.500	f	9/11/2017	9/8/2017	12.2000 ✓	\$1.48	0.0000	0	\$18.11
	No		1010-1025 Steel Bar	f	12.0000	PLOU01		\$18.11	0.0000	0	
			.250 x 1.500	9-89							
			m138470	DAS							
	9		M1018B2.500X6.000	f	9/11/2017	9/8/2017	3.0000 ✓	\$131.87	0.0000	0	\$395.62
	No		1010-1025 Steel Bar	f	3.0000	PLOU01		\$395.62	0.0000	0	
			2.500 x 6.000	9-89							
			m138470	DAS							
	10		M4140HR0.750	f	9/11/2017	9/8/2017	3.0000 ✓	\$3.73	0.0000	0	\$11.18
	No		4140 round bar .750	f	3.0000	PLOU01		\$11.18	0.0000	0	
			m138470	9-89							

245X1.500
Hold for my.

July

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Rev Date/ Rev Emp	Rev Qty (PO U/M)	Cost Per Unit/ Rev Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VC-CAM002 Acier Ouellette Inc.											
PO37671	11		M4140HR2.00 f	f	9/11/2017	9/8/2017	3.0000	\$15.55	0.0000	0	\$46.66
CAD	No		M4140HR2.00 f	f	3.0000	PLOU01		\$46.66	0.0000	0	
			m138470								
	12		M6061T6B0.375X01. f	f	9/11/2017	9/8/2017	20.0000	\$0.95	0.0000	0	\$19.10
	No		000								
			6061T6 BAR .375 x 1.00	9-89	20.0000	PLOU01		\$19.10	0.0000	0	
			m138470								
	13		M6061T6B0.500X1.5 f	f	9/11/2017	9/8/2017	20.0000	\$1.91	0.0000	0	\$38.19
	No		00								
			6061T6 BAR 0.500 x 1.500	9-89	20.0000	PLOU01		\$38.19	0.0000	0	
			m138470								
	14		M6061T6B1.000X5.0 f	f	9/11/2017	9/8/2017	12.0000	\$14.34	0.0000	0	\$172.03
	No		00								
			6061T6 BAR 1.000 x 5.000	9-89	12.0000	PLOU01		\$172.03	0.0000	0	
			m138470								
	15		M6061T6B1.250X3.0 f	f	9/11/2017	9/8/2017	12.0000	\$10.75	0.0000	0	\$129.04
	No		00								
			6061T6 BAR 1.250 x 3.000	9-89	12.0000	PLOU01		\$129.04	0.0000	0	
			m138470								
	16		M6061T6R5.000	f	9/11/2017	9/8/2017	3.0000	\$56.68	0.0000	0	\$170.05
	No		6061-T6 Round Bar 5.000"		3.0000	PLOU01		\$170.05	0.0000	0	
			m138470								
	17		M6061T6R2.250	f	9/11/2017	9/8/2017	2.0000	\$11.45	0.0000	0	\$22.91
	No		6061-T6 Round Bar 2.250"		2.0000	PLOU01		\$22.91	0.0000	0	
			m138470								
	18		71401-45	f	9/11/2017	9/8/2017	1.0000	\$0.00	0.0000	0	\$0.00
	No		PROCUREMENT QUALITY CLAUSES		1.0000	PLOU01		\$0.00	0.0000	0	
			m138470								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
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Total Received Quantity: 229,5000
 Total Qty to Inspect (PO U/M): 0.0000
 Total Reject Quantity: 0.0000
 Total Receipt Value: \$1,488.55
 Total Balance Due Quantity: 0.0000



DELIVERY - CLIENT

CO00049626

Customer N° CLI0001056
Date 2017/09/06
Delivery date 2017/09/08
Your order N° PO37671
Processed by Frederic Leboeuf
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction	F-M	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
						CMD	EXP	B/O	IN	I	S C
1		ROUND SS 3/4 303 RANDOM RSS-34303-V 5761 1 X 12' R/L	18.02	12.00	PI_\$CLB		14				
2		ROUND SS 3/8 304 (12R) RSS-38-12 5763 1 X 12' R/L	4.51	12.00	PI_\$CLB		14				
3		SHEET SS 18G SS304-2B (4 X 8) FESS-18G483042B 3425 2 X 4' X 8'	134.40	64.00	PI2_\$CLB		123				
4		SHEET SS 20G SS304-2B (4 X 8) FESS-20G483042B 3430 2 X 4' X 8'	100.48	64.00	PI2_\$CLB						

NIR : R-109516-6

807-9-11

Next Page...



DELIVERY - CLIENT

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mt: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mt: 514-336-4246 Ext.: 866-456-4242

CO00049626

Customer N° CL10001056
Date 2017/09/06
Delivery date **2017/09/08**
Your order N° PO37671
Processed by Frederic Leboeuf
Salesman
Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days
Page 2

Shipped to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
5 ROUND CR 5/8 1018 (20R) RCR-58-20 1 x 20' r/l 5350	20.80	20.00	PI_\$CLB		14 18'9"				
6 ROUND CR 1/2 1018 (20R) RCR-12-20 1 x 20' r/l 5266	13.36	20.00	PI_\$CLB		14 18'9"				
7 FLAT CR 1/4 X 1 1/2 1018 (12R) FCR-14112-12 1 x 12' r/l 2731	15.30	12.00	PI_\$CLB		14 12'2"				
8 ROUND 4140 HEAT TREAT 3/4 (20R) R4140-34H-20 4948	4.51	3.00	PI_\$CLB						

NIR : R-109516-6

SP7-9-11

Next Page...



DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056
Date 2017/09/06
Delivery date 2017/09/08
Your order N° PO37671
Processed by Frederic Leboeuf

Shipped to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Salesman
Carrier OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Page 3

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	OUT
COUPE A LA SCIE SCIE 1 X 3'		1.00	UN		14 3'					
9 ROUND 4140 HEAT TREAT 2 RANDOM R4140-2H-V 4937	32.04	3.00	PI_\$CLB		14 3'					
COUPE A LA SCIE SCIE 1 X 3'		1.00	UN							
10 FLAT ALU 3/8 X 1 6061-T6 (20) FAL-381-20 2610	9.00	20.00	PI_\$CLB		14 20'					
1 X 20'										

NIR : R-109516-6

88179-20



DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

Date

Delivery date

Your order N°

Processed by

Salesman

Carrier

Credit Terme

Page

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

OUELLETTE VALLEYFIELD

Net 30 Days

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB		Internal Use Only			
				CMD	EXP	B/O	IN	I	S C
11 FLAT ALU 1/2 X 1 1/2 6061-T6 (20) FAL-12112-20 2465 1 X 20'	18.00	20.00	PI_\$CLB		18	20			
12 FLAT ALU 1 X 5 6061-T6 (12) FAL-15-12 2533 1 X 12'	70.49	12.00	PI_\$CLB		18	12			
13 FLAT ALU 1 1/4 X 3 6061-T6 (12) FAL-1143-12 2457 1 X 12'	52.87	12.00	PI_\$CLB		18	12			
14 ROUND ALU 5 6061-T6 (12) RAL-5-12 5164	69.12	3.00	PI_\$CLB						

NIR : R-109516-6

SP72-11

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DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056
Date 2017/09/06
Delivery date **2017/09/08**
Your order N° PO37671
Processed by Frederic Leboeuf
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 5

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction	F-M	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
						CMD	EXP	B/O	IN	I	S C
		COUPE A LA SCIE SCIE 1 X 3'		1.00	UN		12' 3"				
		15 ROUND ALU 2 1/4 6061-T6 (20) RAL-214-20 5144	9.34	2.00	PI_\$CLB		12' 2"				
		COUPE A LA SCIE SCIE 1		1.00	UN						
		16 ROUND SS 1 1/2 303 RANDOM NS RSS-112303-V 8859 1 x 12' R/L AC9030 - TH - 2017/09/07	72.11	12.00	PI_\$CLB		12' 1 1/2"				

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056
Date 2017/09/06
Delivery date 2017/09/08
Your order N° PO37671
Processed by Frederic Leboeuf
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 6

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
17 FLAT CR 2 1/2 X 6 1018 RANDOM NS FCR-2126-V 8860 1 X 3' AC9031 - GR - 2017/09/07	153.00	3.00	PI		1 X 3'				

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 797.35

NIR : R-109516-6

Prepared By :

Delivered By :

Time

Customer's Signature

Date

Total (\$CAD)



DELIVERY - CLIENT

CO00049626

ACTIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLJ0001056

Date 2017/09/06

Delivery date **2017/09/08**

Your order N° PO37671

Processed by Frederic Leboeuf

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 1

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

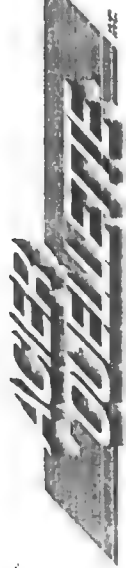
Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB				Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C	OUT
1 ROUND SS 3/4 303 RANDOM RSS-34303-V 5761 <i>anf</i>	18.02	12.00	PI_\$CLB								
1 X 12' R/L HEAT: W4B3											
2 ROUND SS 3/8 304 (12R) 5763 <i>anf</i>	4.51	12.00	PI_\$CLB								
RSS-38-12											
1 X 12' R/L HEAT: CH-3840											
3 SHEET SS 18G SS304-28 (4 X 8) FESS-18G483042B 3425	134.40	64.00	PI2_\$CLB								
2 X 4' X 8' HEAT: 0L4V											

NIR : R-109516-6

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DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

Date

Delivery date

Your order N°

Processed by

Salesman

Carrier

Credit Terme

Page

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB				Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C	OUT
4 SHEET SS 20G SS304-2B (4 X 8) FESS-20G483042B 3430 2 X 4' X 8' DAS 5 HEAT 160629D02 9-89 5 ROUND CR 5/8 1018 (20R) RCR-58-20 5350 1 x 20' r/l HEAT 139624 6 ROUND CR 1/2 1018 (20R) RCR-12-20 5266 1 x 20' r/l	100.48	64.00	PI2_\$CLB								
	20.80	20.00	PI_\$CLB								
	13.36	20.00	PI_\$CLB								

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CL10001056

Date 2017/09/06

Delivery date 2017/09/08

Your order N° PO37671

Processed by Frederic Leboeuf

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 3

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Alt : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
HEAT: 916205 7 FLAT CR 1/4" X 1 1/2 1018 (12R) FCR-14112-12 2731	15.30	12.00	PL_SCLB						
1 x 12' r/l HEAT: W26482 DAS 5 8 ROUND 4140 HEAT TREAT 83/4 (20R) R4140-34H-20 4948	4.51	3.00	PL_SCLB						
HEAT: M52573 COUPE A LA SCIE SCIE 1	1.00		UN						
1 X 3'									

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 MU: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 MU: 514-336-4246 Ext.: 866-456-4242

Customer N° CL10001056

Date 2017/09/06

Delivery date 2017/09/08

Your order N° PO37671

Processed by Frederic Leboeuf

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 4

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB				Internal Use Only		
				CMD	EXP	B/O	IN	I	S	C
9 ROUND 4140 HEAT TREAT 2 RANDOM R4140-2H-V 4937	32.04	3.00	PI_\$CLB							
HEAT: M56776 COUPE A LA SCIE SCIE 1 1 X 3'		1.00	UN							
10 FLAT ALU 3/8 X 1 6061-T6 (20) FAL-381-20 2610 1 X 20' HEAT: 384191	9.00	20.00	PI_\$CLB							

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CL10001056

Date 2017/09/06

Delivery date 2017/09/08

Your order N° PO37671

Processed by Frederic Leboeuf

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 5

Shipped to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
11 FLAT ALU 1/2 X 1 1/2 6061-T6 (20) FAL-12112-20 2465 <i>ank</i> 1 X 20' HEAT: 66789	18.00	20.00	PL_SCLB						
12 FLAT ALU 1 X 5 6061-T6 (12) FAL-15-12 2533 <i>ank</i> 1 X 12' HEAT: 201708529	70.49	12.00	PL_SCLB						
13 FLAT ALU 1 1/4 X 3 6061-T6 (12) <i>ank</i> FAL-1143-12 2457 1 X 12'	52.87	12.00	PL_SCLB						

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056

Date 2017/09/06

Delivery date 2017/09/08

Your order N° PO37671

Processed by Frederic Leboeuf

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 6

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB		Internal Use Only			
				CMD	EXP	B/O	IN	I	S C
HEAT: ES04036 <i>anf</i> 14 ROUND ALU 5 6061-T6 (12) RAL-5-12 5164 <i>anf</i>	69.12	3.00	PI_SCLB						
HEAT: Z00020290 COUPE A LA SCIE SCIE 1 1 X 3' <i>anf</i>		1.00	UN						
HEAT: 68252 <i>anf</i> 15 ROUND ALU 2 1/4 6061-T6 (20) RAL-214-20 5144	9.34	2.00	PI_SCLB						

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CL10001056

Date 2017/09/06

Delivery date 2017/09/08

Your order N° PO37671

Processed by Frederic Leboeuf

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 7

Shipped to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
COUPE A LA SCIE SCIE 1		1.00	UN						OUT
16 ROUND SS 1 1/2 303 RANDOM NS RSS-112303-V 8859 1 x 12' R/L AC9030 - TH - 2017/09/07 HEAT: 3338	72.11	12.00	PI_SCLB						
17 FLAT CR 2 1/2 X 6 1018 RANDOM NS FCR-2126-V 8860 1 X 3' AC9031 - GR - 2017/09/07 DAS 5 HEAT: 2074175 9-89	153.00	3.00	PI						

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

C000049626

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 MU: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 MU: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056

Date 2017/09/06

Delivery date	2017/09/08
---------------	------------

Your order N° P037671

Processed by
Frederic Leboeuf

Salesman

Carrier QUELLETTE VALLEYFIELD

Credit Terme
Net 30 Days

Page 8

[illegible]

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction

[illegible]

Conditions: Total Weight (Lbs): 797.35 NIR: R-109516-6

All sold and delivered materials remain the property of "Acer Quelite Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Quelite Inc." is the same as offered and honored by the manufacturer and its warranty is transferred by "Acer Quelite Inc." to the client. The buyer hereby accepts to respect the following conditions: Net: 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice, to claim for the advance due or the "repossession of the goods-sold. Any claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with authorization and are subject to a 25% restocking charge.

Prepared By :

Verified By :

Delivered By:

Time

1

1

1

1

1

Customer's Signature

Date _____

Total (\$CAD)



METALLURGICAL TEST REPORT

North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

Certificate: 107119 5

Customer: 007035 510

Date: 10/22/2015 Page: 1

Steel: 303

Finish: CD

Corrosion:

NAS Order: PN 0056401 02

Your Order: 770967

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
ASTM A582/12 EN 10204 3.1, ASTM A484/11
AMS 5640L TYPE 1, QQS-764B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7009 EU DIRECTIVE
2011/65/EU. ROHS. EAF-AOD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

14 17/09/13
9-89

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BH4444 0		7500		1.151	144.00	2	1	71459845

CHEMICAL ANALYSIS CN(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/08

HEAT	CH	C %	CO %	CR %	CU %	MO %	NI %	P %
W483	US	.0473	.1185	17.2850	.3305	1.7960	.0532	8.3575
								.0310

S %	SI %
.3495	.4945

MECHANICAL PROPERTIES

Product Id	1 d o i c r	HB	.2YS KSI	UTS KSI	RA %	Elong % 4D
BH4444 0	RL	222.0	82.69	102.54	34.29	23.26

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

ASB

ABHIJEET BHAVE - 10/22/2015

#5763

RSS-38-12 48194

PO6846



CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ADDITIONAL OFFICE: 104, MIDC INDUSTRIAL AREA, DURGAM CHOWK, HYDRABAD

Tel: 91-22-4620000, Fax: 91-22-4620000/74

Website: www.chandansteel.com

Email: info@chandansteel.com

L/c. No.:

L/c. Date:

WORKS: Plot No. 36, C. I. D. C., Durgam

Dist. Vardol, Gujarat - 394 171.

Tel: 91-260-208 9999 Fax: 91-260 208 9972

E-mail: export@chandansteel.com

FORM QC 09A / 02 / 10.12.2012

MILL TEST / INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204 : 2005

PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS				Test Certificate No. : ECP/00337 - 13/2016-2017 Date of Issue : 08.07.2016 P. O. No. : P004712 SC No. & Date : 15-16/00924, Dt. 13.04.2016 Invoice No. & Date : ECP/00337/2016-17 Dt.08.07.2016							
				LENGTH Ordered : 12' - 12'6" Actual : 12' - 12'6"		Net Wt. 6458 LBS.					
Heat No.	Grade AISI/DIN 304/304L 1.4301/1.4307 UNS30400/S30403	Size mm/inches 3/8"	Tolerance h9	Process Route Electric Melting, A.O.D. Refining, Continuous Casting.							
CHEMICAL COMPOSITION (Weight %)											
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Co	N
Min.	-	-	-	-	-	18.00	-	8.00	-	-	-
Max.	0.080	1.00	2.00	0.045	0.030	20.00	1.00	10.50	1.00	-	0.1000
Results	0.019	0.42	1.71	0.040	0.020	18.21	0.52	8.05	0.41	0.10	0.0690
MECHANICAL PROPERTIES											
Specified Values	Proof Strength N/mm ² / MPa 0.2% (Rp0.2) 1% (Rp1.0)		Tensile Strength N/mm ² / MPa (Rm)	Elongation after Fracture A %	Reduction of Area %	Hardness EN ISO 6506-1 (BHN)	Test Method : Charpy 'V' Notch Impact Twisted (mm) as per DIN EN ISO 148 - 1 Sample Size - Test Temp. : 20 °C (room)				
	Results	514	560	712	47	65	215-218	N.A.	N.A.	N.A.	N.A.
Remarks: 1. Cold drawn & Centrifugal Ground. 2. Solution annealed at 1050 °C. 3. PMI test done 100% & found Satisfactory. 4. Material is free from radio-active contamination. 5. Material is free from mercury contamination. 6. Inter-Granular Corrosion Test as per ASTM A262 - 15 (Pr.B) satisfactory. 7. No welding or weld repairs were performed on this material while in our possession. 8. Micro structure reveals - equiaxed grains of Austenite & free from carbide Precipitation. 9. Grain size - No. 7-8 of ASTM as per E112-06. 10. The material Conforms to ASTM A276-15, ASTM A182/A182M-15, ASME SA 182/SA 182M-15, ASTM A479/A479M-15, ASME SA479/SA-479M-15, ASTM A199/A199M-12B B8 - CL1, ASME SA199/SA199M-15 B8 - CL1, ASTM A320/A320M-11 B8 CL1, ASME SA320/SA 320M-10 B8 CL1, AMS-QQ-S-7688 COND A, AMS - 5639H, AMS - 5647H, EN 10088-3 : 2014 & DIN EN 10272-2008 Specification. 11. Location of sample - Centre, Direction - Longitudinal, Test Temp. - Room Temp., Shape of Test Piece - Round. 12. Marking details - Company Logo, Size, Grade & Heat No. 13. The material is manufactured /melt in Chandan Steel Mill and is of Indian Origin. BUNDLE NO.: 47 to 51 COLOUR : RED											

It is hereby certified that the above results are true and correct in every detail and are meeting the requirements of specification & purchase order.

B. S. RAUTELA
MANAGER - QUALITY ASSURANCE

#3425

FE-SS-18648306120

Pa. 3538 #2
47479



North American Stainless Canada Inc.
740 Imperial Road North
Quebec, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Chent, KY 41045-9615
(502) 347-6000

Certificate: 253625 2

Customer: 007035 021

Date: 1/10/2017 Page: 1

Steel: 304/304L

Finish: 2B

Corrosion: ASTM A262/15,180Bend-OK

Your Order: 788462

NAS Order: DS 0011167 01

PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED. UNS 30400/30403
ASTM A240/15b, A480/15, A666/15, ASME SA240/15, SA480/15, SA666/15
MANUFACTURED IN MALAYSIA

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; RoHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001

Product Id	Supplier Id	Skid #	Thickness	Width	Weight	Length	Mark	Pieces	Commodity Code
110L4V	A00304 63A		.0450	48.0295	24,908	COIL	1	1	74261496

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

HEAT	Supplier#	CM	C %	CR %	MN %	N %	NI %	P %	S %	SI %
0L4V L32R	ES		.0200	18.2000	1.8200	.0800	8.0000	.0290	.0020	.3600

MECHANICAL PROPERTIES

Product Id	Supplier Id	UT2	30C	.2% YS	20C	FLONG	%	Hard	Tail
110L4V	A00304 63A	FT	95.72	48.59	48.00	85.00	86.00		

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

Technical
Dept. Mgr.

KRIS LARK

1/11/2017

YONGJIN

MILL TEST REPORT

DATE: 2016-7-31
 Invoice No.: SECAB26503TDS
 CERTIFICATE NO.: PPCNQ6506TDS

MADE IN CHINA
 PRODUCING MILL: YONGJIN
 PO NUMBER: C16960

GOODS: STAINLESS STEEL COLD ROLLED COILS 2B FINISH, AS PER AISI 304 PRIME QUALITY.
 SLITTING EDGE WITH PAPER INTERLEAVED.
 TYPE: 304 SPEC: ASTM A240/480, ASME SA 240/480

NO.	Surface	Heat No.	Coil No.	DIMENSIONS	Weight (MT)	Mechanical Properties				State
						T.S (N/mm ²)	Y.S (N/mm ²)	Elong %	Hardness	
✓ 1	2B	160612C11	YJJ16Z05996A	0.024 INCH X 48.00 INCH X COIL	9.648	671	270	58	159/161/162	P556015
✓ 2	2B	160625B01	YJJ16Z05945A	0.030 INCH X 48.00 INCH X COIL	9.241	690	279	56	167/167/168	P554952
✓ 3	2B	160629D02	YJJ16Z05961A	0.035 INCH X 48.00 INCH X COIL	7.010	690	280	55	167/168/169	P554953
✓ 4	2B	160629D02	YJJ16Z05961C	0.035 INCH X 48.00 INCH X COIL	7.084	690	280	55	167/168/169	P554954
✓ 5	2B	160629D02	YJJ16Z05961B	0.035 INCH X 48.00 INCH X COIL	6.915	690	280	55	167/168/169	P556016
TOTAL:					39.898					

CHEMICAL COMPOSITION %										
NO.	C	Si	Mn	P	S	Cr	Ni	N	Mo	Cu
1	0.036	0.43	1.16	0.026	0.004	18.15	8.06	0.050	0.024	0.08
2	0.044	0.39	1.06	0.024	0.002	18.34	8.01	0.051	0.004	0.02
3	0.044	0.59	1.17	0.026	0.003	18.19	8.04	0.046	0.004	0.03
4	0.044	0.59	1.17	0.026	0.003	18.19	8.04	0.046	0.004	0.03
5	0.044	0.59	1.17	0.026	0.003	18.19	8.04	0.046	0.004	0.03

REMARKS: We hereby certify that the material described herein has been manufactured and tested with satisfactory results in accordance with the requirements of the material specification.

Quality Dept. *Peter*



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

#5
TRA 1469 500
48493
38

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47704

ALBARAN 47704
Delivery Note Nr.

CLIENTE LES ACTIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A108

Nº PEDIDO Purchase Order	DESCRIPCIÓN Description	KGS.	TOLERANCIA TOLERANCE	OF	MEDIDA Measurement
PAR-47152	12L14 HEX. ESTIRADO 31,75 (1 1/4")	996	-0,076	915907	31,75
PAR-47472	12L14 RED. ESTIRADO 50,80 (2")	1.034	-0,076	916489	50,80
PAR-47851	12L14 RED. ESTIRADO 50,80 (2")	1.090	-0,076	916489	50,80
PAR-47851	1018 RED. ESTIRADO 31,75 (1 1/4")	994	-0,051	139211	31,75
MJP-47856	12L14 RED. ESTIRADO 25,40 (1")	3.000	-0,051	139256	25,40
PAR-47786	1018 RED. ESTIRADO 30,16 (1 3/16")	1.090	-0,051	139297	30,16
PAR-47786	12L14 RED. ESTIRADO 19,05 (3/4")	2.002	-0,051	202433	19,05
MJP-47861	12L14 HEX. ESTIRADO 31,75 (1 1/4")	994	-0,076	915907	31,75
OU-47812	1018 RED. ESTIRADO 9,53 (3/8")	1.040	-0,051	139333	9,53
SM-47572	1018 RED. ESTIRADO 9,53 (3/8")	1.040	-0,051	139477	9,53
SM-47572	1018 RED. ESTIRADO 31,75 (1 1/4")	1.988	-0,051	139481	31,75
AQM-47672	1018 RED. ESTIRADO 31,75 (1 1/4")	1.990	-0,051	139547	31,75
OU-47832	12L14 RED. ESTIRADO 19,05 (3/4")	1.998	-0,051	202313	19,05
OU-47832	1018 RED. ESTIRADO 15,88 (5/8")	2.004	-0,051	139627	15,88
OU-47832	1018 RED. ESTIRADO 31,75 (1 1/4")	996	-0,051	139627	31,75
MJP-47856	1018 RED. ESTIRADO 15,88 (5/8")	1.010	-0,051	139776	15,88

Composición química de la colada / Chemical Analysis of Heat

MEDIDA Measurement	OF	COLADA Cast Nr.	% C	% Cr	% Cu	% Mn	% Mo	% Ni	% P	% Ph	% S	% Si
31,75	0,00	915907	0,070	0,090	0,230	1,110	0,030	0,110	0,051	0,210	0,329	0,020
50,80	0,00	916489	0,060	0,000	0,000	1,120	0,000	0,000	0,043	0,220	0,318	0,010
50,80	0,00	916489	0,060	0,000	0,000	1,120	0,000	0,000	0,043	0,220	0,318	0,010
31,75	0,00	139211	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
25,40	0,00	139256	0,060	0,086	0,014	1,130	0,006	0,023	0,063	0,300	0,310	0,003
30,16	0,00	139297	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
19,05	0,00	202433	0,071	0,046	0,019	1,085	0,004	0,029	0,060	0,295	0,292	0,008
31,75	0,00	915907	0,070	0,090	0,230	1,110	0,030	0,110	0,051	0,210	0,329	0,020
9,53	0,00	139333	0,160	0,000	0,000	0,750	0,000	0,000	0,021	0,000	0,032	0,160
9,53	0,00	139477	0,160	0,000	0,000	0,750	0,000	0,000	0,021	0,000	0,032	0,160
31,75	0,00	139481	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
31,75	0,00	139547	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
19,05	0,00	202313	0,071	0,046	0,019	1,085	0,004	0,029	0,060	0,295	0,292	0,008
15,88	0,00	139627	0,160	0,000	0,000	0,650	0,000	0,000	0,021	0,000	0,023	0,142
31,75	0,00	139627	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
15,88	0,00	139776	0,160	0,000	0,000	0,650	0,000	0,000	0,021	0,000	0,023	0,142

Características mecánicas / Mechanical properties



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR. 47704

ALBARAN 47704
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

MEDIDA	OF	COLADA	Resistencia	Lím.elástico	Alargamiento	Dureza HB	Estricción %
Measurement		Cast Nr.	Tens. strength N/mm2	Yield point 0,2% N/mm2	Elongation Lo-50 mm.	Hardness HB	
31,75	915907	39680 W	533,38	523,05	12,04	169,00	45,79
50,80	916489	41232 IS	515,66	509,28	16,20	178,00	53,91
50,80	916489	41732 IS	515,66	509,28	16,20	178,00	53,91
31,75	139211	41410 AG	558,02	536,07	36,40	159,00	57,29
25,40	139256	41300 AG	556,11	543,10	19,46	159,00	46,32
30,16	139297	41411 AG	551,06	525,36	37,06	165,00	59,43
19,05	202433	41406 AA	584,38	568,82	16,86	172,00	47,83
31,75	915907	39680 W	533,38	523,05	12,04	169,00	45,79
9,53	139333	41460 GM	735,60	691,90	12,70	216,00	59,96
9,53	139477	41460 GM	735,60	691,90	12,70	216,00	59,96
31,75	139481	41410 AG	558,02	536,07	36,40	159,00	57,29
31,75	139547	41410 AG	558,02	536,07	36,40	159,00	57,29
19,05	202313	41406 AA	584,38	568,82	16,86	172,00	47,83
15,88	139624	41508 G	602,29	574,24	20,18	176,00	60,19
31,75	139627	41410 AG	558,02	536,07	36,40	159,00	57,29
15,88	139776	41508 G	602,29	574,24	20,18	176,00	60,19

Calidad Superficial

DESCRIPCIÓN Description	OF	Clase EN 10277-1
12L14 HEX. ESTIRADO 31,75 (1 1/4")	915907	1
12L14 RED. ESTIRADO 50,80 (2")	916489	2
12L14 RED. ESTIRADO 50,80 (2")	916489	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139211	3
12L14 RED. ESTIRADO 25,40 (1")	139256	3
1018 RED. ESTIRADO 30,16 (1 3/16")	139297	2
12L14 RED. ESTIRADO 19,05 (3/4")	202433	3
12L14 HEX. ESTIRADO 31,75 (1 1/4")	915907	1
1018 RED. ESTIRADO 9,53 (3/8")	139333	2
1018 RED. ESTIRADO 9,53 (3/8")	139477	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139481	3
1018 RED. ESTIRADO 31,75 (1 1/4")	139547	3
12L14 RED. ESTIRADO 19,05 (3/4")	202313	3
1018 RED. ESTIRADO 15,88 (5/8")	139624	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139627	3
1018 RED. ESTIRADO 15,88 (5/8")	139776	2

DAS
TA
S-8-
17/09/13



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
E-mail: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50019

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47704

ALBARAN 47704 Delivery Note Nr.	CLIENTE LES ACIERS TRANSSEC (1997) LTÉE CUSTOMER
------------------------------------	---

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norma :

Bright steel products. Technical delivery conditions.

Observaciones: BARRAS DE ACERO ESTRIADAS EN FRÍO SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.

QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Date: 08/06/2017

Firmado: Susana Fernández
Directora de Calidad



Sistema de
Gestión
SG 0011/2008

www.calpradera.es
ID: 1107-10024



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

11.12.12 #6

506

48011

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 46977

ALBARAN 46977
Delivery Note Nr.

CLIENTE I.E.S ACTERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A108

Nº PEDIDO Purchase Order	DESCRIPCIÓN Description	KGS.	TOLERANCIA TOLERANCE	OF	MEDIDA Measurement
OU-47007	1018 CUA. ESTIRADO 12,70 (1/2")	960	-0,110	916205	12,70
OU-47007	1018 CUA. ESTIRADO 50,80 (2")	1.204	-0,190	138237	50,80
MUP-47224	1018 RED. ESTIRADO 25,40 (1")	2.006	0,051	138229	25,40
PAR-47152	1018 CUA. ESTIRADO 50,80 (2")	2.400	0,190	138236	50,80
PAR-47472	1018 CUA. ESTIRADO 38,10 (1 1/2")	834	-0,160	916334	38,10
PAR-47472	1018 CUA. ESTIRADO 12,70 (1/2")	980	-0,110	916205	12,70
PAR-47472	1018 CUA. ESTIRADO 50,80 (2")	1.204	-0,190	138491	50,80
PAJ-47284	1018 CUA. ESTIRADO 6,35 (1/4")	1.000	-0,090	915673	6,35
PAJ-47284	1018 CUA. ESTIRADO 12,70 (1/2")	1.218	-0,110	916205	12,70
PAJ-47284	1018 CUA. ESTIRADO 50,80 (2")	1.198	-0,190	138520	50,80
PAR-47490	1018 RED. ESTIRADO 25,00	4.960	-0,051	138774	25,00
OU-47436	1018 RED. ESTIRADO 12,70 (1/2")	1.086	-0,051	138832	12,70
VI-47383	1018 CUA. ESTIRADO 6,35 (1/4")	992	-0,090	915673	6,35
VI-47383	1018 CUA. ESTIRADO 25,40 (1")	633	-0,130	916070	25,40
CA-46398	1018 CUA. ESTIRADO 50,80 (2")	1.196	-0,190	139048	50,80
PAR-47756	1018 CUA. ESTIRADO 25,40 (1")	1.020	-0,130	916070	25,40
MUP-47531	1018 CUA. ESTIRADO 6,35 (1/4")	992	-0,090	916198	6,35

Composición química de la colada / Chemical Analysis of Heat

MEDIDA Measurement	OF	COLADA Cast Nr.	% C	% Mn	% P	% S	% Si
12,70	0,00	916205	0,161	0,802	0,006	0,023	0,268
50,80	0,00	138237	0,150	0,710	0,012	0,012	0,160
25,40	0,00	138229	0,160	0,630	0,007	0,010	0,136
50,80	0,00	138236	0,150	0,710	0,012	0,012	0,160
38,10	0,00	916334	0,190	0,790	0,019	0,017	0,200
12,70	0,00	916205	0,161	0,802	0,006	0,023	0,268
50,80	0,00	138491	0,150	0,710	0,012	0,012	0,160
6,35	0,00	915673	0,150	0,770	0,007	0,026	0,235
12,70	0,00	916205	0,161	0,802	0,006	0,023	0,268
50,80	0,00	138520	0,150	0,710	0,012	0,012	0,160
25,00	0,00	138774	0,160	0,630	0,007	0,010	0,136
12,70	0,00	138832	0,160	0,720	0,013	0,012	0,170
6,35	0,00	915673	0,150	0,770	0,007	0,026	0,235
25,40	0,00	916070	0,180	0,760	0,017	0,028	0,220
50,80	0,00	139048	0,150	0,710	0,012	0,012	0,160
25,40	0,00	916070	0,180	0,760	0,017	0,028	0,220
6,35	0,00	916198	0,150	0,770	0,007	0,026	0,235

Características mecánicas / Mechanical properties

14/7/09/13
9-89



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 46977

ALBARAN 46977
Delivery Note Nr.

CLIENTE LES ACIERS TRANSDEC (1997) I.T.E.E
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

MEDIDA Measurement	OF	COLADA Cast Nr.	Resistencia Tens. strength N/mm ²	Lím. elástico Yield point 0,2% N/mm ²	Alargamiento Elongation Lo=50 mm.	Dureza IFB Hardness IFB	Estricción %
12,70	916205	41079 S	600,76	559,59	15,12	190,00	0,00
50,80	138237	41336 C	515,00	330,00	34,00	0,00	0,00
25,40	138229	41198 G	566,93	548,05	26,50	172,00	54,84
50,80	138236	41336 C	515,00	330,00	34,00	0,00	0,00
38,10	916334	40753 C	500,00	330,00	32,00	0,00	0,00
12,70	916205	41079 S	600,76	559,59	15,12	190,00	0,00
50,80	138491	41336 C	515,00	330,00	34,00	0,00	0,00
6,35	915673	40073 G	822,40	791,50	7,94	258,00	47,07
12,70	916205	41079 S	600,76	559,59	15,12	190,00	0,00
50,80	138520	41336 C	515,00	330,00	34,00	0,00	0,00
25,00	138774	41198 G	621,60	600,60	14,14	185,00	52,83
12,70	138832	41218 GM	555,00	0,00	30,60	0,00	0,00
6,35	915673	40073 G	822,40	791,50	7,94	258,00	47,07
25,40	916070	40439 SR	511,00	358,00	33,30	0,00	0,00
50,80	139048	41336 C	515,00	330,00	34,00	0,00	0,00
25,40	916070	40439 SR	511,00	358,00	33,30	0,00	0,00
6,35	916198	40073 G	822,40	791,50	7,94	258,00	47,07

Calidad Superficial

DESCRIPCIÓN
Description

OF

Clase
EN 10277-1

Observaciones: BARRAS DE ACEROE STIRADAS EN FRIO SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.
QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Date: 24/04/2017

Firmado: Susana Fernandez
Directora de Calidad



Sistema de
Gestión
ISO 9001:2004

www.tuv.com
ID 1102 200724



CERTIFICATE OF CONFORMANCE

AMERICAN BAR PRODUCTS
3600 Michigan Ave, Unit 1
East Chicago, IN
46312
p (215) 957-0500 - f (215) 957-6345

PRODUCT DATA

TAG NO. 70918
PO #: b 97699
HEAT: W26482
GAUGE 0.25
WIDTH 1.500
LENGTH 140-89
WEIGHT 1,590
PART # / IAC#: v-731371
GRADE: C-1018 CF FLAT BAR

MILL DATA

HEAT: W26482
MILL COIL #: K7774831
MELT/ROLL MILL: US Steel
GRAIN SIZE PRACTICE: ALUMINUM KILLED
REDUCTION: 40 : 1
PO TO MILL: 42461
WORK ORDER #: 126974
SERIAL NO: 12357622
CUSTOMER PO#: 225889
Melt & Manufacture USA
OTHER PRODUCT DATA:

SHIPPING DATA

BILL/LADING #: 34348
B/L DATE: 11-Jan-17

Production data

OPERATOR ricky sanders
DATE 11-Jan-17
MACHINE LINE 3

CHEMISTRY

C	0.1900
Mn	0.7800
P	0.0060
S	0.0040
Cu	0.0100
Ni	0.0100
Cr	0.0400
Mo	0.0080
V	0.0010
Al	0.0340
Cb	
N	0.0070
Si	0.0080

C-1018 COLD FINISHED FLAT BAR
MEETS PROPERTIES OF ASTM A29
MEETS PROPERTIES OF ASTM A108-13

GRAIN: ASTM E112, FINE GRAIN: 8/9, 128 GRAIN/IN² AT 100X MAGNIFICATION
REDUCTION RATIO 20/1 MIN. STRAND CASTING, NO WELDING OR WELD REPAIR

WE HEREBY CERTIFY THE ABOVE FIGURES ARE ACCURATELY STATED
THE ABOVE FIGURES ARE TRACEABLE IN OUR RECORDS BACK TO THE PRODUCER AND/OR
TO AN ACCREDITED TEST LABORATORY, ALL PHYSICALS MINIMUM

WE HEREBY CERTIFY THAT THIS PRODUCT DOES NOT CONTAIN LEAD, MERCURY, CADMIUM,
HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS (PBD), POLYBROMINATED DIPHENYL ETHERS (PBDE)

HEAT ANALYSIS IS FROM THE PACKING LIST RECEIVED FROM OUR RAW MATERIAL SU

OFARS COMPLIANT

PRODUCED IN USA

3

QUALITY CONTROL



GRANU SPECIAL STEEL NORTH AMERICA
5591 MERRILL ROAD
JACKSON, MICHIGAN 49201

2#2

CERTIFIED MATERIAL TEST REPORT

142324	CERTIFIED MATERIAL TEST REPORT						
	CUSTOMER ORDER NUMBER	1012462/4140EFVD	CUSTOMER PLAT NUMBER	MS2573	TEST METHOD	HUNT HANDB FORM/AS	DATE
						283416 101	11/05/13
							Daniel Cast

ORDERED

4140	0	3/4"	RND	20' 2"	20' 2"
ORDERED					
SYSTEM VERIFICATION					
NOV 10 1967					

CHEMICAL ANALYSIS

[illegible]

GRAIN SIZE

SPECIFICATION ASTM E112

HARDENABILITY

SPECIFICATION ASTM A255/A304

THEORETICAL

1971	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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DI CALCULATION

SPECIFICATION CAT 1E0024

5.07

REDUCTION RATIO

SPECIFICATION ITEM 1012462

RATIO= 81.5 TO 1.0

Page 1

... with specified requirements.

Wendy J. Craig

Wm. J. Lewis

Gerda Monroe
3000 East Front Street
Monroe, MI 48161

CONTINUED ON PAGE 2



GERDAU SPECIAL STEEL NORTH AMERICA
5591 MCBRILL ROAD
JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT			
CUSTOMER ORDER NUMBER	CUSTOMER PART NUMBER	WELD ORDER NUMBER	DATE
142324	1012462/4140EFVD	283416 101	11/05/13
Daniel Cabot			

ORDERED			
4140	0	3/4" RND	20' 2"
ITEM 1012462 REV 1 DTD 03/05/12; A29/A29M-12; A322-07			
RESIDUAL MAX SPECIFICATION ITEM 1012462			
P+S = 0.0340			
RESIDUAL MIN SPECIFICATION ITEM 1012462			
P+S = 0.0340			
ASTM E381 MACRO ETCH SATISFACTORY: S1/R1/C1; MEETS SAE J422			
S5/05 RATING (WORST FIELD):			
** MATERIAL 100% MELTED AND MANUFACTURED IN THE U.S.A. BY THE ELECTRIC ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION.			
GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL.			
PAGE 2 OF 2			
We certify that these data are correct and in compliance with specified requirements.			
Wendy J. Craig			
Gerdau Monroe			
3000 East Front Street			
Monroe, MI 48161			

Vulcan Threaded Products 10 Cross Creek Trail Pineville, AL 35124 Tel (205) 820-5100 Fax (205) 820-6160		JOB MATERIAL CERTIFICATION																																											
Job No: 344313 Containers: S7521278 S7525286 Customer Part No: 1012483-001 Customer PO No: 143436-753733 Order No: 201403 Note: WD 753733 A		Job Information Certified Date: 12/7/13 Ship To: 20601 Trolley Industrial Drive Taylor, MI 48180 Shipped Qty: 16442 lbs Line No: 1																																											
Part Information Part No: HRB 4140 750x240 Q&T ES Part Group: HT TOLL Please Weight: 30.059 Name: Hot Rod Bars Alloy Type: 4100 Alloy - Temper: 4140 -																																													
Applicable Specifications Specification ASTM A193 B7/ASME SA193 B7 Heat Treat Customer Specification		Raw Amfired Option 30128																																											
Test Results See following pages for tests Certified Chemical Analysis <table border="1"> <thead> <tr> <th>Element</th> <th>C</th> <th>Mn</th> <th>P</th> <th>S</th> <th>Si</th> <th>Cr</th> <th>Ni</th> <th>Mo</th> <th>Al</th> <th>Co</th> <th>W</th> <th>Fe</th> <th>Other</th> </tr> </thead> <tbody> <tr> <td>Analysis</td> <td>0.28</td> <td>0.15</td> <td>0.008</td> <td>0.005</td> <td>0.25</td> <td>0.95</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> <td>0.005</td> </tr> <tr> <td>Notes</td> <td colspan="13"> Material was manufactured, tested and inspected in accordance with Vulcan Threaded Products Inc. Quality Assurance Program and Manual New A. dated 8/20/11. Processed material is Quenched and Tempered - Stress Free. No weld repair performed on the material. No Mercury used in the production of this material. Method and Manufactured in the USA Induction Heat Treated Average Gauge Reading <15 The microstructure consisted of 100% tempered martensite from the surface to the center. Autotempering temp. >1700 degrees F. Test specimens meet the ASTM A193-12a specifications </td> </tr> </tbody> </table>				Element	C	Mn	P	S	Si	Cr	Ni	Mo	Al	Co	W	Fe	Other	Analysis	0.28	0.15	0.008	0.005	0.25	0.95	0.005	0.005	0.005	0.005	0.005	0.005	0.005	Notes	Material was manufactured, tested and inspected in accordance with Vulcan Threaded Products Inc. Quality Assurance Program and Manual New A. dated 8/20/11. Processed material is Quenched and Tempered - Stress Free. No weld repair performed on the material. No Mercury used in the production of this material. Method and Manufactured in the USA Induction Heat Treated Average Gauge Reading <15 The microstructure consisted of 100% tempered martensite from the surface to the center. Autotempering temp. >1700 degrees F. Test specimens meet the ASTM A193-12a specifications												
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Al	Co	W	Fe	Other																																
Analysis	0.28	0.15	0.008	0.005	0.25	0.95	0.005	0.005	0.005	0.005	0.005	0.005	0.005																																
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cert 377 069

JOB MATERIAL CERTIFICATION

Muson Threaded Products
10 Cross Creek Trail
Prichard, AL 35124
Tel (205) 820-6100
Fax (205) 820-5150

Certified Date: 12/7/13

Job Information

Job No: 344313

Container: S7521270 S7525208

Test Results

[illegible]

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Dear Christy,

Chinnai, David - Supervisor

Printed On-line 12/7/73 9:44 AM Vol. 60, No. 2, Page 2 of 3

Steel Bar Company Inspection Certificate-1626286

Customer	Order No.	Ship Date	Customer PO	Item	Customer Item	Item Description
	107240	06-Mar-2017	B98205	11144 rev 003	V018242	34 HRI RD 4140/42MM 20K2in SBQ OTSF FG NST

All bundles listed below were produced using steel from Heat M62573 issued by GERDAU-MONROE and were completed from Ealon Steel Job 806632.

All hardness values have been produced using a test from the							
Chemistry	Description	Value	Units	Heat Treating	Description	Value	Units
C	Carbon	0.40000	PMGT	TEMPER TEMP P	Temper Temp in Fahrenheit	500 - 2500	DDGF
Mn	Manganese	0.85000	PMGT	AUSTENITIZING TEMP P	Austenitize Temp in Fahrenheit	1600 - 1700	DDGF
P	Phosphorus	0.01000	PMGT	SR TEMP P	Stress Relief Temp in Fahrenheit	500 - 2500	DDGF
S	Sulfur	0.02400	PMGT	MAGNETISM-HT	Magnetism in Gauss	0 - 20	GN
Si	Silicon	0.25000	PMGT	TIME AT TEMP	Time at Temperature	Report	
Ni	Nickel	0.12000	PMGT	QUENCH MEDIA	Quench Media Requirements	PAN/O	
Cr	Chromium	0.96000	PMGT	STRESS FREE	Cert stress free	CERTIFIED	
Mo	Molybdenum	0.18000	PMGT	HT1410-420T	Quench & Temper	CONFORMS	
Al	Aluminum	0.03000	PMGT	Mill Processing	Description	Value	Units
Cu	Copper	0.17000	PMGT	MELT COUNTRY	Melted in Country	USA	
V	Vanadium	0.00200	PMGT	ROLLED COUNTRY	Rolled in Country	USA	
Co	Cobaltium	0.00200	PMGT	RED RATIO	Reduction Ratio	81.50	RED
N	Nitrogen	0.00000	PMGT	ASTM Standard	Distillation	Value	Units
P+S	Element Sum Limit	0.03400	PMGT	AL93/193M-01	Grade B7	CONFORMS	
D1	Idcal Diameter	5.07000	IN	A434-90a-BC	ASTMA BC Tensile and Yield properties	CONFORMS	
Chemicalness	Description	Value	Units	Structure	Description	Value	Units
MACRO ETCH	Report macro etch results			PERCENT TM	Percent Tempered Martensite	80 - 100	PCT
Geometry	Description	Value	Units	MICROSTRUCTURE	Reported Microstructure	TM	
DIA/METER	Diameter	0.7420 - 0.7580	IN	Tag Number	Qty Units	Length	
			Units	022-1921471	3305 LBS	20ft	

ASTM A304

Chemical	Description	Value	Units
Tensile	Tensile Strength in Psi Units		PSI
Yield	Yield Strength in PSI Units		PSI
ELONGATION	percent Elongation		PCT
REDUCTION	percent Reduction in Area		PCT
BRINELL	Brinell Surface	286.0	BRIN

4936

48603

R4140-2H-20

TRF 151

#9

CERTIFICATE OF TEST

CERTIFICAT D'ESSAIS

Page 01 of 02

 Certification Date
9-DEC-2016

 CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

 Invoice Number
S687318

 AC00001567
PART NUMBER/NUMÉRO DE PIÈCE

SOLD TO: ACIER OUELLETTE INC

SHIP TO:

ACIER OUELLETTE INC.

VENDU À:

EXPÉDIÉ À:

 22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

 22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

 Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
2 RD X 20' R/L Line Total: 470 LB
HEAT: M56776 ITEM: 506433

Specifications:

ASTM A193 GR B7 14

ASTM A434 GR BC 06

ASME SA193 GR B7

ASTM A 322 13

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.42	0.89	0.011	0.033	0.26	0.15	0.90	0.18
CU	SN	AL	V	NB	N		
0.24	0.008	0.024	0.003	0.003	1.40		

RCPT: R966216

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	132.0	144.0	23.0	57.0	279

IDEAL DIAMETER : 5.34 IN GRAIN SIZE : 5 - 8

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



 MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
9-DEC-2016

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
S687318

AC00001567
PART NUMBER/NUMÉRO DE PIÈCE

SOLD TO: ACIER OUELLETTE INC
VENDU À: 22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

SHIP TO:
EXPÉDIÉ À:

ACIER OUELLETTE INC.
22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
2 RD X 20' R/L Line Total: 470 LB
HEAT: M56776 ITEM: 506433

VACUUM DEGASSED MATERIAL IS FREE FROM MERCURY CONTAMINATION
THERMAL TREATMENT: OK
TREATMENT TEMP F TIME (MIN) MEDIA
AUST 1625 2.10
QUENCH 0 WATER
TEMPER 1400 2.1
QUENCHED @ 100 DEG F FOR 2.5 MIN
MACRO: OK
MICRO1: OK

COMMENTS
red ratio 11.5 to 1.0
melted and mfg in the USA

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du fabricant après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.
The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession/Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

MILL TEST

FA 381

CERT CODE:		DIE NUMBER	DATE OF SHIPMENT	ORDER NO.	MANIFEST NO.
1		S	Nov/03/2016	198958 - 1	359787
SHIP TO	CUSTOMER PO	ALLOY	TEMPER	SALESMAN	
ACIER OUELLETTE	101434	6061	T6	HOUSE ACCOUNTS	
SO DESCRIPTION	CUSTOMER PART NUMBER	PART DESCRIPTION			
1" X 3/8" FLAT BAR	DT02222	1" X 3/8" FLAT BAR ✓			
			CERTIFICATION		
			MILL TEST ASTM B221-14		

MADE IN CANADA

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell E	Conductivity
A.11	6061	Oct/27/2016	43.50	39.30	18.40	88.2, 88.5, 87.9	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
384191	A.11	6061	0.6	0.18	0.2	0.03	0.85	0.07	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0

DAS 14 17/09/13

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale

David Natale
Quality Control Manager

1 - CUSTOMER COPY

FAL 12112 6000-41C #11

Test de dureté Rockwell Rockwell Hardness Test

46185

Client / Customer : LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address : 4054 BOUL. LE CORBUSIER # 201
LAVAL, QC
H7L5R2

commande Sapa / Sapa order # : 6050261

bon de commande / Purchase order # : OU-46056

de matrice / Die # : MS 9442 Description : 1 1/2" x 1/2" FLAT BAR

Alliage & trempage / Alloy & temper : 6061 T6 Longueur / Length : 6097 mm

Contrôle / Control # : 68674-2

Coulée / Cast # : 66789

Dureté Rockwell E / Min. requis / Max. permis /
Rockwell E hardness : 95 HRE Min. required : 88 HRE Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	...	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de specimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre,
Yours truly,

date : 2016-08-01

14
S-89 17/09/13

Gilles Pélissier
Technicien de la qualité
Quality technician



Service Center Metals

5850 Quality Way
Prince George, VA 23875

Can Do.



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

2P #12

OUR ORDER NUMBER	ITEM
925726	4

CERTIFICATION
ASTM-B221-14 StencilCont
SPECIFICATION
AMS-QQA-200/8 Rev-A

MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT
338176	MRB0479	7/20/2017
CUSTOMER PO	ALLOY-TEMPER	SALES PERSON
C74707	6061-T6511	D. Schroeder (Canada)
CUSTOMER PART NUMBER	DESCRIPTION	
MRB0479	MRB 1.000x5.000	

Quantity Certified 1,140 lbs 16 pcs

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

This product is RoHS-2, REACH, and DFARS compliant.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
			min max	min max	min max
			50.10 50.90	45.20 46.50	15.60 17.00

3 201708529

DAS
14
9-89

17/09/12

SCM products are melted and extruded in the USA

Print Date: 7/20/2017

Calvin J. Wiggins

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 3/2/16



Service Center Metals

5850 Quality Way
Prince George, VA 23875

Can Do.



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
925726	4

MANIFEST NUMBER	DATE OF SHIPMENT	CERTIFICATION
338176	7/20/2017	ASTM-B221-14 StencilCont
CUSTOMER PO	SALESPERSON	SPECIFICATION
C74707	D.Schroeder (Canada)	AMS-QQA-200/8 Rev-A
CUSTOMER PART NUMBER	DESCRIPTION	
MRB0479	MRB 1.000x5.000	
Quantity Certified	1,140 lbs	16 pcs

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

This product is RoHS-2, REACH, and DFARS compliant.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

DAS
14
9-80

17/09/13

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others		Melt Source:
												Each	Total	
001J170406Y	201708529	6061	0.76	0.40	0.33	0.10	0.92	0.09	0.05	0.04	97.32	0.05	0.15	United States of America
001J170524A	201708529	6061	0.74	0.37	0.33	0.11	0.87	0.11	0.06	0.03	97.38	0.05	0.15	United States of America
05141704	201708529	6061	0.74	0.40	0.33	0.10	0.92	0.08	0.07	0.02	97.34	0.05	0.15	United States of America
05171701	201708529	6061	0.76	0.36	0.30	0.11	0.86	0.09	0.07	0.03	97.42	0.05	0.15	United States of America

SCM is ISO 9001-2015 certified

Print Date: 7/20/2017

Calvin J. Wiggins

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 9-8-16

24571

4A1-1143-12

ACIER OUELLETTE INC P.O. - AC7730 S.O. - 394920

48392

#13

Material Test ReportManifest: 704227

Ticket:

1658808

Our Order: 876180-1

Cust P.O.: 787365

Die: ES04036

Part: 5131-8954

Alloy Temper: 6061 T6511Description: 1.250 x 3.000 RECT. BAR

Print Date: 12/12/16

Chemical Composition

CastNum	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Maximum	
									OtherEach	OtherTotal
34827	0.57	0.24	0.19	0.08	0.85	0.07	0.02	0.01	0.05	0.15

Mechanical Properties

Strength ksi

Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
66813	34827	A11	12/6/16	48.37	44.45	17.5

Applicable Specifications: ASTMB221-14AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

DAS
14
8-99 17/09/13

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Eric Hotte - Tensile Testing

Authorized:


Evan Eng, Quality Assurance Manager

#14

Certificate of Mill Test Results

LES ACHERS OUELLETTE INC.
BARRE RONDE ALUMINIUM 6061-T6511
5.00" DIA X 141.0000"
PART NO.

PO/ORD OU-77076
Nous certifions que le document reproduit ici est
une copie conforme du rapport fourni par le
fournisseur du matériel ou les données résultent

MIL VIM-17S IS 7-001
de l'analyse faite par un laboratoire qualifié.
SIGNE PAR: LUCY TRUGLIO
9 May 16
Pg. 1/1

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: VIM-635658-3		CUSTOMER PART NUMBER: R37/STK		PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD 5.000 +/-0.017	
KAISER ORDER NUMBER: 6007370	LINE ITEM: 003	SHIP DATE: 04/19/2016	KAISER LOT NUMBER: Z00020290	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 1108.000 LB	QUANTITY: 4.000 PCS	B/L NUMBER: 615429	DIAM/CAF/TI/KYS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 4700 BOIS FRANC ST LAURENT, PQ H4S 1A7 CANADA			SOLD TO: THYSSENKRUPP CANADA 4700 BOIS FRANC ST LAURENT, PQ H4S 1A7 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00020290	0001	C001	51.8	47.6	15.6	RE 94	N/A	N/A
Z00020290	0001	C002	51.1	47.2	16.0	RE 91	N/A	N/A
Z00020290	0002	0001	58.2	54.7	15.0	RE 94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.60	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.30
10E110	.72	.29	.26	.11	.93	.10	.19	.02	.00	.00	.00	.01	.04

Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-CQ-A-200/8A UNS# A95961
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been
inspected and tested and found in conformance with applicable specifications forming a part of the
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

1417/09/13

Plant Serial: 00227395
Kaiser Order Number: 6007370
Line Item: 003

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL. LE CORBUSIER # 201
LAVAL, QC
H7L5R2**

commande Sapa / Sapa order # : **7010442**

bon de commande / Purchase order # : **OU-47042**

de matrice / Die # : **MS 16001**

Description : **2.25" DIA. ROD**

Alliage & trempage / Alloy & temper : **6061 T6**

Longueur / Length : **6097 mm**

Contrôle / Control # : **83103-1**

Coulée / Cast # : **68252**

Dureté Rockwell E /
Rockwell E hardness : **96 HRE**

Min. requis /
Min. required : **88 HRE**

Max. permis /
Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	—	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme **ASTM B-221-14** excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre,
Yours truly,

date : **2017-02-08**

Dates:
14/7/17/09/13
8-8c



Gilles Pelletier
Technicien de la qualité
Quality technician



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Corr: 300262

Customer: 007205 001

Date: ~~6/06/2017~~ Page: 1

Stool: 303

उस : पुराना

Corrosion:

Red Ratio: 37.0 : 1

NAS Order: IN 0248251 02

YOUR ORDER: **VIM641730**

PRODUCT DESCRIPTION:

Round Bar, ~~Heat-treated~~ Smooth Turned, Cold Finished
UNS 30300, ASTM A582/121 EN 10205 3.1, ASTM A484/15
TYPE 1, QCS-564B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF EFAR 252.225-7009 EU DIRECTIVE
2011/65/EU, ROHS. ZAP+OD-CC. NO WELD REPAIR. WELDED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

DAS
1A
9-85

17/09/13

Product Id	Skid #	Diameter	Size	Height	-----Length-----	Mark	Pieces	Commodity Code
BT6169 7		1.5000		1.330	144.00	2	1	

CHEMICAL ANALYSIS

APIS Heat	Cm	C %	CO %	CR %	CU %	DJ %	MO %	N %	NI %	P %
333B	678	.9329	.1085	17.0530	.3225	1.8665	.3105	.0466	8.5265	.0275
		S %	BT %							
			.4000							

MECHANICAL PROPERTIES

Product Id	1 o c	4 i r	HB No.	.2YS KSI	UTS KSI	RA %	Elmg %	4D
EX6169 7	R L		152.0	44.00	87.00	58.00		46.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

**Technical
Dept. Mgr.**

Certificate of Mill Test Results

Doc No. 259890
Indexed 12Jun17 by msup2

PO Ref AC000000030

Not a certificate of test results
this is a copy of the test results
fournisseur de matériel d'essai

Not a certificate of test results
this is a copy of the test results
fournisseur de matériel d'essai

ACIER QUALITE DIV-VALLEYFIELD
740 Imperial Road North
Guelph, ON N1K1V3
Canada



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1V3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 300262 4

Customer: 007205 001

Date: 6/06/2017 Page: 1

Steel: 303

Finish: ST

Corrosion:

Red Ratio: 32.0 : 1

NAS Order: IN 0248251 02

Your Order: VIM641730

PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished
UNS 30300, ASTM A582/12 EN 10204 3.1, ASTM A484/15
AMS 5640V TYPE 1, QQS-764B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DEAR 252.225-7009 EU DIRECTIVE
2611/65/EU.ROHS. EAP-AOD-CC. NO WELD REPAIR. MELTED AND MSG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid # Diameter	Size	Weight	Length-----	Mark	Pieces	Commodity Code
BI6178 7	1.5000		880	144.00	4	1	

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/16a

NAS Heat	CM	C %	CO %	CR %	CU %	Fe %	MO %	N %	NI %	P %
3338	US	.0329	.1085	17.0530	.3225	1.8665	.3105	.0466	8.5265	.0275
		S %	SI %							
		.3145	.4000							

MECHANICAL PROPERTIES

Product Id	1 d o f e r	HB	No.	.2YS KSI	UTS KSI	RA %	ELong % 4D
BI6178 7	R L	152.0		44.00	87.00	58.00	46.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

[Signature]

VR-S LARK

6/06/2017

ACHROUELLETTE DIV-VALLÉE-FIELD
 1500, rue de l'Industrie, 303
 St-Jean 1440000
 FASINO

PO Ref: ACHROUELLETTE
 Sous-certification de la
 une copie certifiée de
 l'original est fournie

de l'original
 SIGNÉ

BLVIN-52023



North American Stainless Canada Inc.
 740 Imperial Road North
 Guelph, ON N1K1Z3
 Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
 Ghent, KY 41045-9615
 (502) 347-6000

Certificate: 300262 S

Customer: 007205 001

Your Order: VIM641730

NAS Order: IN 0248251 02

Date: 6/06/2017 Page: 1

Spec: 303

Finish: ST

CONFORMATION:

Red Ratio: 32.0 :1

PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished
 UNS 30300, ASTM A582/12 EN 10204 3.1, ASTM A484/15
 AMS 5640V TYPE 1, QCS-764B CONDITIONS A
 SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAF 252.225-7009 ED DIMECTIVE
 2011/65/EU, ROHS. EAF+ADD+CC. NO WELD REPAIR. MELTED AND MFG
 IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BI6170 8		1.5000		881	144.00	3	1	

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
 Chemical Analysis per ASTM A751/14a

NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
333B	US	.0329	.1085	17.0530	.3225	1.8665	.3105	.0466	8.5265	.0275
		S %	SI %							
		.3145	.4000							

MECHANICAL PROPERTIES

Product Id	14 01 01 01	HB	.2YS KSI	UTS KSI	RA %	ELng %	4D
BI6170 8	RL	152.0	44.00	87.00	58.00	46.00	

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
 Dept. Mgr.

[Signature]

STIS PARK

6/06/2017

CO.49626

PD 9031 JV

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 01

Certification Date
9-MAR-2007CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENTInvoice Number
T232578ROSS
PART NUMBER/NUMÉRO DE PIÈCE

Description: 1018 CF BAR ASTM A108
2-1/2 X 6 FLATS 6'0" (72.0") REMNANT
HEAT: 207H175 DAS ITEM: 503180
5
Specifications: 9-89
ASTM A108 03 ASTM A29 04

Line Total: 306 LB

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.16	0.67	0.01	0.02	0.24	0.08	0.07	0.017
CU	AL	V					
0.23	0.045	0.001					

RCPT: R692775
MILL: NIAGARA LASALLE CORPORATION COUNTRY OF ORIGIN: USA

GRAIN SIZE : 5 - 8

STRAND CAST MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

COMMENTS
GRAIN FINE (5 8)
SOURCE/METLED ISG STEELTON (USA)
CAST BLOOM
RED. RATIO 22.5:1

Thompson 1/18
2 1/2 x 6" Flat
9 March 2007

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOSEPH DUBE

Joseph Dube
MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

2 1/2 X 6"

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M1018 R. 625
 DATE 17/09/12
 QUANTITY yes
 QUANTITY RECEIVED 18.9
 QUANTITY INSPECTED 18.9
 QUANTITY REJECTED

ORDER NO. 37671/138470
 MATERIAL 1.625
 THICKNESS RECEIVED 1.625
 SHEET SIZE ORDERED
 SHEET SIZE RECEIVED

DESCRIPTION	INSPECTION CHECK	COMMENTS
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	ASTM A108
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT HEAT #	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	HEAT # 139624
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	M1018 R. 625
CORRECT FRONT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	M138470
CORRECT BACK MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT TOLERANCE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

OUTSIDE INSPECTION MATERIAL AND PREFORMA HARDNESS CHECK				
RECORD RESULTS BELOW				
	HRB	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY <u>[Signature]</u>	DATE <u>17/09/12</u>	SIGNED OFF BY <u> </u>	DATE <u> </u>

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR
SPECIFICATION: MIL-S-7097 OR ASTM A108
PART NUMBER: M1018-R | DDDD | WHERE DDDD = DIAMETER IN INCHES
DIA.
EG 7/8" ROUND BAR = M1018-R0.875
TOLERANCES: PER ASTM A108 AS FOLLOWS:
SIZE TOLERANCE
UP TO 1.5" INCL. +0.000/-0.002
OVER 1.5" TO 2.5" INCL. +0.000/-0.003
OVER 2.5" TO 4.0" INCL. +0.000/-0.004
OVER 4.0" TO 6.0" INCL. +0.000/-0.005
OVER 6.0" TO 8.0" INCL. +0.000/-0.006

RELEASED
2012-09-24

B	REFORMAT ADD ASTM A108, ADD TOLERANCES	CP	DS	12 09 05
A	NEW ISSUE	DS	BY	01 06 12
REV.	DESCRIPTION	DATE		
DESIGN	DS	DATE		
DRAWN	CP	DATE		
CHECKED	CP	DATE		
MFG APPR.	CP	DATE		
APPROVED	CP	DATE		
DE APPR.	CP	DATE		
DATE	12.09.05	DATE		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA				
DRAWING NO. M1018-R				
SHEET 1 OF 1				
TITLE 1018-1025 ROUND BAR				
SCALE NTS				
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MATERIAL RECEIPT INSPECTION FORM

4303 RI.500
17/09/13

37671/138470

INSPECTED BY yes
DATE 12
TIME 12

QUANTITY 1.500
WEIGHT 1.500
VOLUME 1.500
TESTS REQUIRED 1.500

DESCRIPTION	NO. CHECK	COMMENTS
SURFACE FINISH	✓	
CORROSION	✓	
CORROSION PROTECTION	✓	
CORRECT MATERIAL PER DRAWING	✓	ASTM A582
CORROSION PROTECTION	✓	
WELDING REQUIRED	✓	
CORRECT REFERENCE CERT	✓	HEAT # 33313
CORRECT MATERIAL IDENTIFICATION	✓	M.303 RI.500
CORRECT IDENTIFICATION	✓	M.138470
JOINTS MATERIAL REQUIRE	✓	
ENGINEERING SIGNOFF	✓	
JOINTS SIGNATURE	✓	
EXPLANATION REPORT	✓	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM HARDNESS CHECK
RECORD RESULTS BELOW

	HRB	HR3	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY 14
DATE 17/09/13

SIGNED OFF BY _____
DATE _____

Attach this inspection sheet with the corresponding material cart and return to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION: ASTM A582

PART NUMBER: M303R[D.DDD]
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303R0.750

R 1.500

RELEASED
R 2010-02-02
JMD

B	REFORMAT DWG. ADD SPECS (ZN 08-1).	CP	10 01 05
A	NEW ISSUE	DS	01 12 20
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M303R			
TITLE 303 ROUND BAR			
SCALE NTS			
SHEET 1 OF 1			
REV. B			
CONVERTED TO SI BY DART AEROSPACE LTD			
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NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD			

MATERIAL RECEIPT INSPECTION FORM

M303 R.750
17/09/13

37671/138470

4/13
750
750

750
750

DESCRIPTION	QC CHECK V/V	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL PER DRAWING	<input checked="" type="checkbox"/>	ASTM A582
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT REFINEMENT	<input checked="" type="checkbox"/>	HEAT # W4B3
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	M303 R.750
CORRECT PART NUMBER	<input checked="" type="checkbox"/>	M138971
DOES THIS MATERIAL REQUIRE	<input checked="" type="checkbox"/>	
PHONOGRAPHIC	<input checked="" type="checkbox"/>	
OTHER SPECIAL MARK	<input checked="" type="checkbox"/>	
EXTRAUS ON REQUEST	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	-R1	-R2	DUR A	DUR D
TEST MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY	DATE 14 9-89	SIGNED OFF BY
DATE	17/09/13	DATE

Attach this inspection sheet with the corresponding material cert and return to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION: ASTM A582

PART NUMBER: M303R D.DDD
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303R0.750

R.750

RELEASED
R 2010-02-02
MD

B	REFORMAT DWG. ADD SPECS (ZN D6-1). REF PAR 06-020A	CP	10.01.05
A	NEW ISSUE	DS	01.12.20
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M303R		REV. B	
TITLE 303 ROUND BAR		SHEET 1 OF 1	
DATE		SCALE	
10.01.05		NTS	
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MATERIAL RECEIPT INSPECTION FORM

M304 RD.375
17/09/13

37671/138470

QTY 421
QTY 12.3
QTY 12.3

QTY 375
QTY 375
QTY 375
QTY 375

DESCRIPTION	QTY	COMMENTS
SURFACTANT	0	
NON-FLUOR	0	
NON-FLUOR	0	
NON-FLUOR	0	
CORRECT MATERIAL PER DRAWING	0	ASTM A276
CORRECT TO OKNESS	0	
REQ TO REQUIRED	0	
CORRECT REF TO LINK CERT	0	HEAT # CH-3840
CORRECT MATERIAL IDENTIFICATION	0	M304 RD.375
CORRECT MATERIAL IDENTIFICATION	0	M138470
DOES THE MATERIAL REQUIRE	0	
NO NEED TO SIGN OFF	0	
DOES THE MATERIAL REQUIRE	0	
EXCESS OVER-HEIGHT	0	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
	HRB	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY	DATE 14	SIGNED OFF BY	DATE
DATE 17/09/13			

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)

A SPECIFICATION: ASTM A276
PART NUMBER: M304R(D.DDD)
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M304R0.750

DAS 14 9-69

375"

RELEASED
R 01/08/78

B	REFORMAT DWG. ADD SPECS (ZN D6-1), REF PAR 04-020A	CP	09.07.15
A	NEW ISSUE	AJS	08.03.03
REV	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	GA		
CHECKED	GA		
MFG. APPR.	M304R		
APPROVED	GA		
DE APPR.	GA		
DATE	09.07.15		
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MATERIAL RECEIPT INSPECTION FORM

MIL-CL-176-B.375X1.00

17/09/13

37671/138470

QUANTITY ORDERED yes
 QUANTITY RECEIVED 20
 QUANTITY REJECTED 20

QUANTITY ORDERED 375
 QUANTITY RECEIVED 375
 SHEET SIZE ORDERED _____
 SHEET SIZE RECEIVED _____

DESCRIPTION	✓/✗	Check	COMMENTS
SURFACE DEFECTS	✓	0	
CORRECT PART	✓	0	
CORROSION	✓	0	
CORRECT GRAIN DIRECTION	✓	0	
CORRECT MATERIAL PER M-DRAWING	✓	0	ASTM B221
CORRECT THICKNESS	✓	0	
PHOTO REQUIRED	✓	0	
CORRECT REFERENCE NUMBER	✓	0	HEAT# 3B4191
CORRECT MATERIAL IDENTIFICATION	✓	0	M138470
EXAMINATION REPORT	✓	0	
ENGINEERING SIGNOFF	✓	0	
EXAMINATION REPORT	✓	0	

CUT SAMPLE REGION OF MATERIAL AND PERFORM A HARDNESS CHECK
 RECORD RESULTS BELOW

	HRB	HRB	DUHA	DUHD
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 10 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY:	14 9-89	SIGNED OFF BY:	
DATE	17/09/13	DATE	

Attach this inspection sheet with the corresponding material cert and rec'd to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T651076511/T62 ALUMINUM BAR
SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWWW |
THICK | WIDTH
WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWWW" = WIDTH IN INCHES
E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

375X1.00
JPL

RELEASED
R 2009-09-03
MD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (EN D7-1)	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG. APPR.	DS		
APPROVED	DS		
DE APPR.	DS		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESSBURY, ONTARIO, CANADA			
DRAWING NO M6061T6B			
REV. B SHEET 1 OF 1			
TITLE 6061-T6 BAR			
SCALE NTS			
DATE 09.07.13			
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MATERIAL RECEIPT INSPECTION FORM

1606176B.500X1.50

PC BATCH NO 37671/138470

17/09/13

1. IS THIS MATERIAL yes
2. IS THIS MATERIAL 20'
3. IS THIS MATERIAL 20'
4. IS THIS MATERIAL 20'

5. IS THIS MATERIAL .500
6. IS THIS MATERIAL .500
7. IS THIS MATERIAL 20'
8. IS THIS MATERIAL 20'

DESCRIPTION	COMMENTS
SURFACE FINISH	
WELD TYPE	
WELD SIZE	
WELD POSITION	
CORRECT MATERIAL PER DRAWING	ASTM B221
CORRECT THICKNESS	
WELD QUALITY	
CORRECT REF TO INVOICE	HEATH# 66789
CORRECT MATERIAL IDENTIFICATION	M138470
WELD TYPE	
WELD POSITION	
WELD QUALITY	
WELD SIZE	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HR	HRB	DURO	DURO
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY	14	SIGNED OFF BY	
DATE	17/09/13	DATE	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

SDO X 1.50
one

RELEASED
R 2009-09-03
MD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2N D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.08.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG. APPR.	DS		
APPROVED	DS		
DE APPR.	DS		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6B			
REV. B			
SHEET 1 OF 1			
TITLE			
6061-T6 BAR			
SCALE			
NTS			
DATE 09.07.13			
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MATERIAL RECEIPT INSPECTION FORM

M606176 BLDDX5.00
17/09/13

37671/138470

IS IT A NEW PART? yes
IS IT A REWORK? 12
IS IT A REMANUFACTURED PART? 12
IS IT A REPAIR PART? 12

IS IT A NEW PART? 1.00
IS IT A REWORK? 1.00
IS IT A REMANUFACTURED PART? 1.00
IS IT A REPAIR PART? 1.00

DESCRIPTION	NO. CHECKED	COMMENTS
SURFACE DEFECTS	<input checked="" type="checkbox"/>	
CORRECT PART	<input checked="" type="checkbox"/>	
CORRECT GRADE	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL PER DRAWING	<input checked="" type="checkbox"/>	ASTM B221
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT REF TO LINK CERT	<input checked="" type="checkbox"/>	HEAT# 201708529
CORRECT PART IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT PART NUMBER	<input checked="" type="checkbox"/>	M138470
CORRECT MATERIAL REFERENCE	<input checked="" type="checkbox"/>	
ENGINEERING SIGNOFF	<input checked="" type="checkbox"/>	
CORRECT PART DRAWING	<input checked="" type="checkbox"/>	
CORRECT PART REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRB	HR3	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY	<u>14</u>	SIGNED OFF BY	
DATE	<u>17/09/13</u>	DATE	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
 SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4180)
 OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWWW |
 THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WWW.WWWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

1.00 X 5.00
gml

RELEASED
 2009-05-03
MD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.08.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	<i>gml</i>		
CHECKED	<i>gml</i>		
MFG. APPR.	<i>gml</i>		
APPROVED	<i>gml</i>		
DE APPR.	<i>gml</i>		
DATE	09.07.13		
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MATERIAL RECEIPT INSPECTION FORM

Material: M606/T6 B1.250 X 3.00 Part No: 37671/138470
 Date: 17/09/13

Quantity: yes Thickness: 1.25
 Length: 12' Width: 1.25
 Height: 12' Weight:
 Part Size:

DESCRIPTION	QCR (Check V/W)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
DIMENSIONAL	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	ASTM B221
EDDY CURRENT TESTING	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT REWORK/REJECT	<input checked="" type="checkbox"/>	HEAT# ES04036
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	M138470
DOES THIS MATERIAL REQUIRE ENGINEERING SIGNOFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRB	HR3	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>14</u>	SIGNED OFF BY: <u> </u>		
DATE: <u>17/09/13</u>	DATE: <u> </u>		

Attach this inspection sheet with the corresponding material cert and report to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

1.25 X 3.06

DALS
14
9-82

RELEASED
R 2009-05-03
MAD

B	REMOVE QQ-A-250/11 OPTION. REFORMAT NOTES, ADD ASTM B211/B221 (24 07-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG APPR.	M6061T6B		
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B SHEET 1 OF 1 SCALE NTS	
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MATERIAL RECEIPT INSPECTION FORM

Middle R.S.00
17/09/13

37671/138470

yes
3'
3'
5.00
5.00
5.00
5.00

DESCRIPTION	QUR	COMMENTS
SURFACE FINISH	0	
WELDING	0	
WELDING DEFECTS	0	
CORRECT MATERIAL PER DRAWING	0	ASTM B221
CORRECT THICKNESS	0	
PHOTO REQUIRED	0	
CORRECT REF # ON DRAWING	0	HEAT# 200020290
CORRECT MATERIAL IDENTIFICATION	0	M138470
WELDING DEFECTS	0	
ENGINEERING SIGNOFF	0	
OFFICIAL SIGNATURE	0	
EXTRUSION REPORT	0	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
TYPE OF MATERIAL	FR3	FR3	DUHA	DUHD
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY	18	SIGNED OFF BY	
DATE	17/09/13	DATE	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR
SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221
PART NUMBER: M6061T6R(D.DDD)
DIA.
WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M6061T6R0.625

5.00
any

RELEASED
R 2009-09-09
MJP

B		REFORMAT DRWG. ADD B211 & B221 SPEC (ZN D6-1). REF PAR 08-020A		CP	09 07 13
A		NEW ISSUE		DS	01 08 08
REV		DESCRIPTION		BY	DATE
DESIGN		DART AEROSPACE LTD			
DRAWN		HAWKESBURY, ONTARIO, CANADA			
CHECKED		DRAWING NO.			REV. B
MFG. APPR.		M6061T6R			SHEET 1 OF 1
APPROVED		TITLE			SCALE
DE APPR.		6061-T6 ROUND BAR			NTS
DATE	09.07.13				

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MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION
STORAGE AND RETRIEVAL SYSTEM.

MATERIAL RECEIPT INSPECTION FORM

11606116 R2.250
17/09/13

37671/138470

1. QUANTITY yes
2. 2
3. 2
4. 2

5. 2.250
6. 2.250
7. 2.250
8. 2.250

DESCRIPTION	QTY	COMMENTS
1. SURFACE FINISH	✓	
2. DIMENSIONS	✓	
3. WEIGHT	✓	
4. CORRECT MATERIAL PER DRAWING	✓	ASTM B221
5. CORRECT THICKNESS	✓	
6. CORRECT REFERENCE	✓	HEAT # 68252
7. CORRECT MATERIAL IDENTIFICATION	✓	M138470
8. CORRECT MATERIAL REQUIREMENTS	✓	
9. CORRECT MATERIAL SPECIFICATION	✓	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
	HRB	HRC	DUHA	DURD
1. TYPE OF MATERIAL				
2. SIZE OF TEST SAMPLE				
3. HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 16 INSPECTION		ENGINEERING SIGNOFF (If required)	
INSPECTED BY	14 9-88	SIGNED OFF BY	
DATE	17/09/13	DATE	

Attach this inspection sheet with the corresponding material cert and report to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR
SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R(D.DDD)
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M6061T6R0.625

2.250
JHC

RELEASED
R 2009-09-09
JAD

B	REFORMAT DNG. ADD B211 & B221 SPEC (ZN D8-1), REF PAR 09-020A	CP	09.07.13
A	NEW ISSUE	DS	01.08.08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6R			
TITLE 6061-T6 ROUND BAR			
REV. B SHEET 1 OF 1			
SCALE NTS			
DATE 09.07.13			
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MATERIAL RECEIPT INSPECTION FORM

M1018 R.500
17/09/13

37671/138470

yes
18.9
18.9

500
506

DESCRIPTION	NOR Check V/A	COMMENTS
CORRECT FLASH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRINDIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL PER DRAWING	<input checked="" type="checkbox"/>	ASTM A108
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
WOTC REQUIRED	<input checked="" type="checkbox"/>	
CORRECT REF. TO IN CERT	<input checked="" type="checkbox"/>	HEAT # 916205
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	M138470
CORRECT DIMENSIONS	<input checked="" type="checkbox"/>	
CORRECT MARKING	<input checked="" type="checkbox"/>	
EXTRUSION MARK	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HR1	HR3	DURO	DURO
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (If required)	
INSPECTED BY:	DAS 14 gnd	SIGNED OFF BY:	
DATE	17/09/13	DATE	

Attach this inspection sheet with the corresponding material cert and report to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR
SPECIFICATION: MIL-S-7097 OR ASTM A108
PART NUMBER: M1018-RD.DDD WHERE D.D.D. = DIAMETER IN INCHES
DIA.
EG. 7/8" ROUND BAR = M1018-RD.875
TOLERANCES:
PER ASTM A108 AS FOLLOWS:
SIZE TOLERANCE
UP TO 1.5" INCL. +0.000/-0.002
OVER 1.5" TO 2.5" INCL. +0.000/-0.003
OVER 2.5" TO 4.0" INCL. +0.000/-0.004
OVER 4.0" TO 6.0" INCL. +0.000/-0.005
OVER 6.0" TO 8.0" INCL. +0.000/-0.006

RELEASED
2012-08-24

B	REFORMAT	ADD ASTM A108, ADD TOLERANCES	CP	12 09 05
A	NEW ISSUE		DS	01 06 12
REV		DESCRIPTION	BY	DATE
DESIGN	DS			
DRAWN	CP			
CHECKED				
MFG. APPR.				
APPROVED				
DE APPR.				
DATE	12.09.05			
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA				
DRAWING NO. M1018-R				
SHEET 1 OF 1				
TITLE				
1018-1025 ROUND BAR				
SCALE				
NTS				
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 130452094

PO / BATCH NO.: 037671/1138470

DATE: SEP 18 2017

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .040

QUANTITY RECEIVED: 64 SFT

THICKNESS RECEIVED: .036

QUANTITY INSPECTED: 64 SFT

SHEET SIZE ORDERED: 4x8

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: 4x8

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	ASTM A240
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y	N	17 # 1606291002
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>9-65</u>	SIGNED OFF BY: _____		
DATE: <u>SEP 18 2017</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:

MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240

DAS
5
9-89

FINISH:

FINISH
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
POLISHED No. 5
POLISHED No. 6
POLISHED No. 7
POLISHED No. 8

DART M-NUMBER
IDENTIFIER
1P
2D
NONE
3P
4P
5P
6P
7P
8P

PART NUMBER:

M304S TT GA #P
GA

WHERE "TT" = GAUGE THICKNESS
WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.038
19	0.040625	0.039 - 0.041
18	0.04375	0.042 - 0.044
17	0.046875	0.045 - 0.047
16	0.05	0.048 - 0.05
15	0.053125	0.051 - 0.053
14	0.05625	0.054 - 0.056
13	0.059375	0.057 - 0.059
12	0.0625	0.06 - 0.062
11	0.065625	0.063 - 0.065
10	0.06875	0.066 - 0.068
9	0.071875	0.069 - 0.071
8	0.075	0.072 - 0.074
7	0.078125	0.075 - 0.077
6	0.08125	0.078 - 0.08
5	0.084375	0.081 - 0.083
4	0.0875	0.084 - 0.086
3	0.090625	0.087 - 0.089
2	0.09375	0.09 - 0.092
1	0.096875	0.093 - 0.095
0	0.1	0.096 - 0.098

RELEASED

2015 FEB 04

ECN 15-122

REV.	DESCRIPTION	DATE
A	NEW ISSUE	01.09.24
B	REFORMAT DWG. / ADD ASTM/ASME SPECS (2N D8-1), ADD GAUGE REF (C8-1), REF PAR 08-020A	09.08.01
C	DEFINED FINISH OPTION (2N C8) AND EXAMPLE OF MATERIAL FIN WITH FINISH OTHER THAN 2B (2N B5).	12.09.20
D	ADDED GAUGES 0-7.	15.01.06
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWING NO. M304S		
REV. D		
SHEET 1 OF 1		
TITLE		
304/316 SS SHEET		
SCALE		
DATE 15.01.06		
DE APPR.		
MFG. APPR.		
CHECKED		
DRAWN		
DESIGN		

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MIC18 BC 250X1.50t
17/09/13

37671/138470

yes

12.200

12.200

250

245

COVER-S

25050

SECRET

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

100

CORRECT GRADE AND LOCATION

CORRECT WATER PER HOUR NG

100-443885-1

PHOTO REQUIRED

1933-1934

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

CONFIDENTIAL

NOVELS 53407

0-8 176 754

EXCLUSIVELY REPORTED BY

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

100

4RB

DUR A

DUR D

... ..

57- C- ES- SA: 2

HARDNESS / DUROMETER READING

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY:

DATE _____

SEP 18 2017

SIGNED OFF BY

DATE _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018 B2.5X6000
 DATE: SEP 18 2017

PO / BATCH NO.: PO37671/M135420

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 3'
 QUANTITY INSPECTED: 3'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.5
 THICKNESS RECEIVED: 2.5
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/>	N	
CORROSION	Y	<input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/>	N	acceptable, use for tooling only. <input checked="" type="radio"/>
CORRECT THICKNESS	<input checked="" type="radio"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/>	N	H+ # 207H175
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>5</u> DATE: <u>SEP 18 2017</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

DATE M4140 HR. 750
17109113

37671/138470

INSPECTED BY yes 3 3
TESTED BY 750 746
DATE 17109113
TIME 17109113

DESCRIPTION	Q/A	COMMENTS
SURFACE DEFECTS	<input checked="" type="checkbox"/>	
INTERNAL DEFECTS	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL PER DRAWING	<input checked="" type="checkbox"/>	ASTM A304-02 / Use for tooling. 17-09-13
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT REFERENCE NUMBER	<input checked="" type="checkbox"/>	HEAT # MS 2573
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	M4140 HR. 750
CORRECT MATERIAL SPECIFICATION	<input checked="" type="checkbox"/>	M138470
DOES THIS MATERIAL REQUIRE ENGINEERING SIGNOFF	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE EXTENSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW			
	HR	HR	HR
TYPE OF MATERIAL			
SIZE OF TEST SAMPLE			
HARDNESS DUROMETER READING			

Testers located in the Quality Office

QC-18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY	DAS 5 9-89	SIGNED OFF BY	
DATE	SEP 18 2011	DATE	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE 15.02.21		TITLE 4140 ROUND BAR	SCALE 1:1
A	15.02.21	NEW ISSUE	

PURCHASE MATERIAL: AISI 4140H ROUND BAR

PER AISI 4140 OR ASTM A304-02 / -A-434-BC /

-A193-D3-GRADE-B7 / -A29-03 / -A322-91 OR

UNS # - G41400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 KSI

MINIMUM YIELD TENSILE STRENGTH = 66 KSI

PART NUMBER: M4140H-R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES
DIA |

EG. 7/8" ROUND BAR = M4140H-R0.875

RELEASED
25 03 25 #

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 1 of 8

Order From :

VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
SEP 05 2017

Contact Name

Vendor Phone

800 667 4248

Ship To Contact

Ship To Phone

Ship Via:

Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M303R1.500	M303R1.500	9/11/2017 Yes 9/11/2017		12.00 f	\$19.55	\$234.60
MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE							
Line Total:							\$234.60
2	M303R0.750	303 Round Bar 0.750	9/11/2017 Yes 9/11/2017		12.00 f	\$4.43	\$53.16
MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE							
Line Total:							\$53.16

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37671**

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 2 of 8

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

3	M304R0.375	304 ROUND BAR 0.375	9/11/2017	12.00	\$1.03	\$12.41
			Yes			
			9/11/2017			

MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276

(NOTE: AISI 303 NOT ACCEPTABLE)

4	M304S18GA	304/316 .050 Sheet	9/11/2017	64.00	\$5.36	\$342.72
			Yes			
			9/11/2017			

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

Line Total: \$12.41

Line Total: \$342.72

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 3 of 8

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

5	M304S20GA	304/316 .040 Sheet	9/11/2017	64.00	\$3.91	\$250.14
			Yes	sf		
			9/11/2017			

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

2x.
SP 7-9-11

Line Total: \$250.14

6	M1018R0.625	M1018R0.625	9/11/2017	20.00	\$1.04	\$20.79
			Yes	f		
			9/11/2017			

MATERIAL: AISI 1018-1025 ROUND BAR AS PER
MIL-S-7097 OR ASTM A108

18.9.

Line Total: \$20.79

7	M1018R0.500	1018-1025 round bar .500	9/11/2017	20.00	\$0.67	\$13.35
			Yes	f		
			9/11/2017			

MATERIAL: AISI 1018-1025 ROUND BAR AS PER
MIL-S-7097 OR ASTM A108

18.9

SP 7-9-11

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 4 of 8

Order From :

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

VC-CAM002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

FCA - (Free Carrier)

					Line Total:		
8	M1018B0.250x1.500	1010-1025 Steel Bar .250 x 1.500	9/11/2017	12.00	\$1.86	\$22.33	
							Yes
							9/11/2017
					MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR CSA G40-21, 38W/44W/50W/60W/70W		
					Line Total:		\$22.33
9	M1018B2.500X6.000	1010-1025 Steel Bar 2.500 x 6.000	9/11/2017	3.00	\$165.32	\$495.95	
							Yes
							9/11/2017
					MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR CSA G40-21, 38W/44W/50W/60W/70W		
					Line Total:		\$495.95
10	M4140HR0.750	4140 round bar .750	9/11/2017	3.00	\$4.67	\$14.01	
							Yes
							9/11/2017
					SAW CUT CHARGES INCLUDED IN PRICE		
					MATERIAL: AISI 4140 H ROUND BAR PER		
					AISI 4140 OR ASTM A304-02/-A-434-BC/-A193-03 GRADE-B7/-A29-03/-A332-91 OR UNS # G41400		

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37671**

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 5 of 8

Order From :

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

VC-CAM002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Total: \$14.01

11	M4140HR2.00 ✓	M4140HR2.00 ✓	9/11/2017 FN	3.00 ✓	\$19.50	\$58.49
			Yes	f		
			9/11/2017			

SAW CUT CHARGES INCLUDED IN PRICE

MATERIAL: AISI 4140 H ROUND BAR PER

AISI 4140 OR ASTM A304-02/-A-434-BC/-A193-03 GRADE-B7/-A29-03/-A332-91 OR UNS # G41400

Line Total: \$58.49

12	M6061T6B0.375X01.000	6061T6 BAR .375 x 1.00 ✓	9/11/2017	20.00 ✓	\$1.20	\$23.94
			Yes	f		
			9/11/2017			

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR

AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116

OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR

ASTM B221

887-9-11

Line Total: \$23.94

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37671**

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 6 of 8

Order From :

VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acet:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

13	M6061T6B0.500X1.500	6061T6 BAR 0.500 X 1.500	9/11/2017	20.00	\$2.39	\$47.87
			Yes	f		
			9/11/2017			

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$47.87

14	M6061T6B1.000X5.000	6061T6 BAR 1.000 X 5.000	9/11/2017	12.00	\$17.97	\$215.66
			Yes	f		
			9/11/2017			

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$215.66

SEP-9-11

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37671**

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 7 of 8

Order From :

VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

15	M6061T6B1.250X3.000	6061T6 BAR 1.250 X 3.000	✓	9/11/2017	12.00	✓	\$13.48	\$161.76
				Yes	f			
				9/11/2017				

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$161.76

16	M6061T6R5.000	6061-T6 Round Bar 5.000"	✓	9/11/2017	3.00	✓	\$71.06	\$213.18
				Yes	f			
				9/11/2017				

SAW CUT CHARGES INCLUDED IN PRICE
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$213.18

PO Instructions: QUOTATION SOU0055250

Note:

9/5/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37671**

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 8 of 8

Order From :

VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

17	M6061T6R2.250	6061-T6 Round Bar 2.250"	9/11/2017	2.00	\$14.36	\$28.72
			Yes	f		
			9/11/2017			

SAW CUT CHARGES INCLUDED IN PRICE

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR

AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116

OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR

ASTM B221

Line Total: \$28.72

18	71401-45	PROCUREMENT QUALITY CLAUSES	9/11/2017	1.00	\$0.00	\$0.00
			No			
			9/11/2017			

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

Line Total: \$0.00

PO Total: \$2,209.08

PO Instructions: QUOTATION SOU0055250

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 9/5/2017



ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0055250

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

P10537671

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N 

CLI0001056

Date

2017/08/30

Revision N 

0

Prices valid until

2017/09/06

Your Order N 

Processed by

BERNARD

Salesman

FRED

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

2

Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
COUPE A LA SCIE SCIE 1 1 X 3'		1.00	UN	1.00		5.00			5.00
ROUND 4140 HEAT TREAT 2 RANDOM R4140-2H-V 4937	32.04	3.00	PI_\$CLB	3.00	PI	17.83			53.49
COUPE A LA SCIE SCIE 1 1 X 3'		1.00	UN	1.00		5.00			5.00
FLAT ALU 3/8 X 1 6061-T6 (20) FAL-381-20 2610	9.00	20.00	PI_\$CLB	1.00	UN	23.94			23.94
FLAT ALU 1/2 X 1 1/2 6061-T6 (20) FAL-12112-20 2465	18.00	20.00	PI_\$CLB	1.00	UN	47.87			47.87
FLAT ALU 1/2 X 3 6061-T6 (20) FAL-123-20 2485	36.20	20.00	PI_\$CLB	1.00	UN	96.27			96.27
FLAT ALU 1 X 5 6061-T6 (12) FAL-15-12 2533	70.49	12.00	PI_\$CLB	1.00	UN	215.66			215.66
FLAT ALU 1 1/4 X 3 6061-T6 (12) FAL-1143-12 2457	52.87	12.00	PI_\$CLB	1.00	UN	161.76			161.76
FLAT ALU 2 X 3 6061-T6 (12) FAL-23-12 2559	84.67	12.00	PI_\$CLB	1.00	UN	242.12			242.12
ROUND ALU 5 6061-T6 (12) RAL-5-12 5164	69.12	3.00	PI_\$CLB	0.25	UN	812.72			203.18

pr avis en fonction de l volution des prix de l'acier sur le march .
Cette offre est sujette et conditionnelle   l'approbation du cr dit.

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation**SOU0055250****Billed to**

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N° CLI0001056
Date 2017/08/30
Revision N° 0
Prices valid until 2017/09/06
Your Order N°
Processed by BERNARD
Salesman FRED
Carrier OUELLE SDV
Credit Terms Net 30 Days
Page 1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
SS303 ROUND BAR 1 1/2" N 1 X 12' R/L 2-3 DAYS ✓	0.00	12.00	PI	12.00	UN	19.55			234.60
ROUND SS 3/4 303 RANDOM RSS-34303-V 5761 ✓ 1 X 12' R/L	18.02	12.00	PI_\$CLB	12.00	PI	4.43			53.16
ROUND SS 3/8 304 (12R) RSS-38-12 5763 ✓ 1 X 12' R/L	4.51	12.00	PI_\$CLB	12.00	PI	1.03			12.41
SHEET SS 18G SS304-2B (4 X 8) FESS-18G483042B 3425 ✓ 2 X 4' X 8'	134.40	64.00	PI2_\$CLB	2.00	UN	171.36			342.72
SHEET SS 20G SS304-2B (4 X 8) FESS-20G483042B 3430 ✓ 2 X 4' X 8'	100.48	64.00	PI2_\$CLB	2.00	UN	125.07			250.14
ROUND CR 5/8 1018 (20R) RCR-58-20 5350 ✓ 1 x 20' r/l	20.80	20.00	PI_\$CLB	20.00	PI	1.04			20.79
ROUND CR 1/2 1018 (20R) RCR-12-20 5266 ✓ 1 x 20' r/l	13.36	20.00	PI_\$CLB	20.00	PI	0.67			13.35
FLAT CR 1/4 X 1 1/2 1018 (12R) FCR-14112-12 2731 ✓ 1 x 12' r/l	15.30	12.00	PI_\$CLB	12.00	PI	1.86			22.33
FLAT CR 2 1/2" X 6" N 1 X 3' 2-3 DAYS	0.00	1.00	UN	1.00	UN	495.95			495.95
ROUND 4140 HEAT TREAT 3/4 (20R) R4140-34H-20 4948 ✓ + 5.00 coupe sci.	4.51	3.00	PI_\$CLB	3.00	PI	3.00			9.01

préavis en fonction de l'évolution des prix de l'acier sur le marché.
Cette offre est sujette et conditionnelle à l'approbation du crédit.

Date :

Next Page...



ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0055250

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N 

CLI0001056

Date

2017/08/30

Revision N 

0

Prices valid until

2017/09/06

Your Order N 

Processed by

BERNARD

Salesman

FRED

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

3

Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
COUPE A LA SCIE SCIE 1 1 X 3'		1.00	UN	1.00		10.00			10.00
ROUND ALU 4 6061-T6 (20) RAL-4-20 5162	44.29	3.00	PI_\$CLB	0.15	UN	856.13			128.42
COUPE A LA SCIE SCIE 1 1 X 3'		1.00	UN	1.00		10.00			10.00
ROUND ALU 2 1/4 6061-T6 RANDOM RAL-214-V 5145	9.34	2.00	PI_\$CLB	2.00	PI	11.86			23.72
COUPE A LA SCIE SCIE 1 1 X 2'		1.00	UN	1.00		5.00			5.00
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$						3.95

Total Weight (Lbs)

737.40

Important

This offer is based on availability and current pricing conditions that may be revised upon

preparation of the order de l' volution des prix de l'acier sur le march .

This offer is subject to and conditional to the approval du cr dit.

Approved and Accepted by :

Sub-total

2 689.84

TVH-13 · 349.68

Total (\$CAD)

3 039.52

Date :